

19990221.qrp v01_n374.qrl.990221

Date: Sun, 21 Feb 1999 19:03:22 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1374

QRP-L Digest 1374

Topics covered in this issue include:

- 1) [33665] ARRL-DX - Stage one mission accomplished
by Larry Cahoon <wd3p@juno.com>
- 2) [33666] K2 SSB option
by Richard Fall <rfall@witsend.com>
- 3) [33667] my NC20
by Rod Cerkoney <rlc@frii.com>
- 4) [33668] Re Paddles
by Joseph Mikuckis <k3chp@erols.com>
- 5) [33669] NC20 TiCK Problem
by J38AL@aol.com
- 6) [33670] Re: NC20 - Installing heatsink on Q6
by J38AL@aol.com
- 7) [33671] Re: K2 SSB option
by B11john@aol.com
- 8) [33672] Mystery NC2040
by Jess Gypin <jessqrp@concentric.net>
- 9) [33673] RE: Clubs
by Jim Lowman <jmlowman@ix.netcom.com>
- 10) [33674] Re: Re Paddles
by "Bruce Prior" <n7rr@hotmail.com>
- 11) [33675] OHR 100 and Linux
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
- 12) [33676] RE: Clubs
by Jim Lowman <jmlowman@ix.netcom.com>
- 13) [33677] <fs> Embedded controller stuff
by Michael Maiorana <mikemo@ibm.net>
- 14) [33678] QRP+ - for sale (possible)
by Brien Pepperdine <pepperb@gov.on.ca>
- 15) [33679] Freeband mod for FT-50RD
by aidan@sparkey.aidans.house.in.oz.to
- 16) [33680] Problem with NC20 TX
by "David D. Meacham" <ddm@datatamers.com>
- 17) [33681] Re: NC20 - Installing heatsink on Q6
by Pierre Dagenais <dagenais@freenet.carleton.ca>
- 18) [33682] I DID IT!! I PASSED MY EXTRA!!
by PUNISHER3@aol.com
- 19) [33683] copper rod vs copper PIPE for ground

- by "The one and only!" <mitch96@pobox.com>
- 20) [33684] Re: Freeband mod for FT-50RD
by Jeff Johns <jeffj@scott.net>
- 21) [33685] Re: I DID IT!! I PASSED MY EXTRA!!
by Jeff Johns <jeffj@scott.net>
- 22) [33686] Re: NC20 - Installing heatsink on Q6
by "Ivan Dubinsky" <ivand@uniserve.com>
- 23) [33687] Re: copper rod vs copper PIPE for ground
by "Ivan Dubinsky" <ivand@uniserve.com>
- 24) [33688] Re: I DID IT!! I PASSED MY EXTRA!!
by Wayne Alexander <walexan@ipa.net>
- 25) [33689] Re: I DID IT!! I PASSED MY EXTRA!!
by Paul Harden <pharden@aoc.nrao.edu>
- 26) [33690] Re: QRP+ - for sale (possible)
by ac5ez@webtv.net (Larry B)
- 27) [33691] RE: I DID IT!! I PASSED MY EXTRA!!
by Rod Cerkoney <rwc@frii.com>
- 28) [33692] Re: copper rod vs copper PIPE for ground
by "Dennis B. Dolle" <dolledb@cet.com>
- 29) [33693] Re: copper rod vs copper PIPE for ground
by "Graeme Zimmer" <gzimmer@vic.bigpond.net.au>
- 30) [33694] HW-7 Problem Update
by Willie Martin <71052.134@compuserve.com>
- 31) [33695] Re: Clubs
by "Tony Fishpool" <g4wif@btinternet.com>
- 32) [33696] Re: copper rod vs copper PIPE for ground
by Chuck Carpenter <w5usj@unicomp.net>
- 33) [33697] Re: I DID IT!! I PASSED MY EXTRA!!
by Chuck Carpenter <w5usj@unicomp.net>
- 34) [33698] Re: copper rod vs copper PIPE for ground
by Hank Kohl K8DD <k8dd@contesting.com>
- 35) [33699] Ground rods vs pipe
by "The one and only!" <mitch96@pobox.com>
- 36) [33700] FS OHR100 & SCAF Filter
by Bob Hightower <ki7mn@extremezone.com>
- 37) [33701] Copper ground pipe installation
by sda <sda@bellsouth.net>
- 38) [33702] I DID IT!! I PASSED MY EXTRA!!
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 39) [33703] Lost bookmarks
by "Paul Helbert, Wv3j" <phelbert@rica.net>
- 40) [33704] Grounding with no connectors
by "Bruce Prior" <n7rr@hotmail.com>
- 41) [33705] painting engraved panels ?
by James Skalski <jskalski@buffnet.net>
- 42) [33706] qrp rtty
by ntan <ntan@crosslink.net>
- 43) [33707] Grounds and copper pipe.

by "Bruce" <Bruce2@prodigy.net>
44) [33708] fy/dj0pj qrp on 24.904 1610z
by Zack Lau <zlau@arrl.org>
45) [33709] Re: QRP Quarterly on the streets
by Thom <thom@li.net>
46) [33710] Re: painting engraved panels ?
by Tom McCuen <tjmc@erols.com>
47) [33711] RE: painting engraved panels ?
by mike1@urbancom.net (Dinelli, Michael)
48) [33712] RE: I DID IT!! I PASSED MY EXTRA!!
by "Ken & Linda Burrough" <ne0c@1st.net>
49) [33713] Re: fy/dj0pj qrp on 24.904 1610z
by Tom Palmer <n1tp@worldnet.att.net>
50) [33714] re:Subject: DL QRP PA
by David Shalita <af389@lafn.org>
51) [33715] Re: copper rod vs copper PIPE for ground
by Peter Larsen <larsenp@cadvision.com>
52) [33716] NorCal 20 - LSB vs USB
by Bill & Merleigh Jones <kd7s@psnw.com>
53) [33717] Re: Lost bookmarks
by Ed Loranger <we6w@juno.com>
54) [33718] FS: OHR 400 w/ built in iambic keyer
by Bill Wetherill <n2wg@wilmington.net>
55) [33719] re:qrp rtty
by ntan <ntan@crosslink.net>
56) [33720] NE QRP Club meeting
by malman@world.std.com (joel malman)
57) [33721] Free books
by Jim or Jade Seeber <kw3u@warwick.net>
58) [33722] Re: copper rod vs copper PIPE for ground
by Pete Burbank <plburbank@kih.net>
59) [33723] Re: Free books
by joseph r nappier <kt4pm@gte.net>
60) [33724] Abusing the NEC-2 model {or trapped in DFW awaiting an aircraft}
by jaywa5whn@juno.com
61) [33725] Atlanticon talk preview #2: TECHNIQUES AND TOPICS FOR 6-METER DESIGN
by "George Heron" <gheron@nac.net>
62) [33726] Re: NorCal 20 - LSB vs USB
by Gary L Surrency <gsurrency@juno.com>
63) [33727] A new way to cheat.
by Jeff Grudin <grudin@pacific.vdbs.com>
64) [33728] Re: painting engraved panels ?
by Ray Colbert <af852@rgfn.epcc.edu>
65) [33729] RE: NC20 BFO setting correction
by Gary L Surrency <gsurrency@juno.com>
66) [33730] NC-20; Section 13 Anomaly
by wo7t@juno.com
67) [33731] FS: OHR-400

- by wo7t@juno.com
- 68) [33732] Trickle Charging - How Much Current ?
by Jim Dolson <jdolson@iserv.net>
- 69) [33733] Re: NC20 LowOutput
by Gary L Surrency <gsurrency@juno.com>
- 70) [33734] KL7RA on 21.065
by "Tim Cook" <timcook@erinet.com>
- 71) [33735] Re: painting engraved panels ?
by Brian Chesire <BCChesire@worldnet.att.net>
- 72) [33736] Re: copper rod vs copper PIPE for ground
by "Ronald Hands" <rhands@hwcen.org>
- 73) [33737] Re: Fw: Mercury Paddle for sale
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
- 74) [33738] Re: Mercury Paddle for sale
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
- 75) [33739] Re: Mercury Paddle for sale
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
- 76) [33740] FS/Trade IC-735 for DX-70T/IC-729/TS-680S
by wb2vuo@juno.com
- 77) [33741] Re: NorCal 20 - LSB vs USB
by Bill Cotter <bcotter@pop.uky.edu>
- 78) [33742] wb4npt@Juno.Com: YAESU FT301SD FOR SALE
by wb4npt@juno.com

Date: Sun, 21 Feb 1999 00:46:59 +0000
From: Larry Cahoon <wd3p@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [33665] ARRL-DX - Stage one mission accomplished
Message-ID: <19990221.004700.10222.0.wd3p@juno.com>

Well I just met the first goal in the ARRL-DX contest. Picked up AK at 100 mWatts this afternoon pm 15 Meters and just got HI at 900 mWatts on 20 Meters. Two more states for the AR QRPp WAS contest. 35 states 9.53 Watts. The AK QSO also pushed my all time WAS power total below 10 Watts to 9.9 Watts. What fun!!!!

72 de Larry.....WD3P in MD

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 20 Feb 1999 17:03:51 -0800

From: Richard Fall <rffall@witsend.com>
To: qrp-1@Lehigh.EDU
Subject: [33666] K2 SSB option
Message-ID: <v04104406b2f50b5707df@[205.178.23.34]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It's been fascinating and quite educational to see the email reports from the K2 field test team regarding their first contacts.

A question for that team: have any of you built (or plan to build) the SSB option? If so, have you made any contacts and gotten signal quality reports?

I've placed my K2 order based on the strength of the CW-only reports I've seen, but I've also ordered the SSB option and would like to hear about how well it works....

- Rich

Date: Sat, 20 Feb 1999 18:11:01 -0700
From: Rod Cerkoney <rcw@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33667] my NC20
Message-ID: <3.0.5.32.19990220181101.007fd620@mail.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Finally!!!

Finally got to start my NC20! Work, school, other stuff, you've been there.

First things first: STANDING OVATION FOR THE PROJECT TEAM!!!

Dave: Great design, What a RCVR! I learned in the 60's the true meaning of "Get a good RCVR" I had a Drake 2B. Then, in the 70's I worked at Collin's Radio Avionics Div. I have high radio expectations--the NC20 meets them nicely!

Doug: Great kiting technique! The individual bags facilitate my inventory sorting quite nicely.

SIDE BAR FOR BEGINNING KIT BUILDERS: I inventory & sort parts into 2oz. paper cups marked with the part values. When done with that, I double check everything. Now, when it comes time to stuff the board, I can find what I need quickly, check it again before stuffing and once more just

soldering. It _sounds_ like a lot of work, but is far easier than unsoldering and replacing wrong parts!

I also clean the leads of all parts with one of those green 3M scrubbie thingys. I did not do this on the fit two kits I built and wound up with a few poor solder joints.

Following my own advise, my 3rd kit a NorCal 40, went together in three days, with no errors.

Everybody else on the Project team: Thanks for your effort to bring us a wonderful radio. Your hard work is much appreciated. I look forward with anticipation to future projects from the Normal crew.

One last thought. I really like the fact that I'm helping a Ham in a third world country get one of these great rigs. Hat's off to the folks who came up with that idea. Any change that call signs of those deserving individuals can be listed somewhere? I'd like to "keep an ear out" for those folks.

BRAVO FOLKS, now it is time to melt solder....

72/3 N0RC

Rod Cerkoney, QRP-L #1764.

Fort Collins, CO

da di dah

Date: Sat, 20 Feb 1999 20:13:51 -0500

From: Joseph Mikuckis <k3chp@erols.com>

To: qrp-l@Lehigh.EDU

Subject: [33668] Re Paddles

Message-ID: <36CF5DCF.7AF5@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Very interesting thread re paddles. I have never heard of Mercury until now but sure love to see one. And speaking on paddles... two years ago during Gaithersburg Hamfest in Maryland I saw a fantastic-looking solid brass paddle made by J. M. March of Winchester, VA., serial 0083. The seller was a young kid who told me that it was made by his dad (not a

ham) as a hobby. The asking price was 150 dollars. I could not resist it and got it for 140 dollars. I have never regretted that decision! It employs magnetic repulsion and is one of the finest paddles I ever used. I wonder if any of you are using one, heard of it, and/or what is your opinion.

73 de Joe, K3CHP, Riverdale, MD
k3chp@erols.com

Date: Sat, 20 Feb 1999 20:19:10 EST
From: J38AL@aol.com
To: qrp-1@Lehigh.EDU
Subject: [33669] NC20 TiCK Problem
Message-ID: <4db070d.36cf5f0e@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

To those who wish to read,

I ran into another snag while building my NC20. After finishing section 12 and connecting to power, etc., nothing was heard in the phones from the TiCK chip. First I checked that I inserted it right and it was. Then I remembered a problem that K5F0 had with something in his paddle jack. So first I checked voltages against the troubleshooting chart - only the 5 volt supply was right. Took away power and starting checking resistance of components such as the jack, programing switch, etc. Hooked up the paddles and checked their path to the TiCK - all OK. What next?? I had a TiCK 2 kit that I built about a month ago sitting there, not in a rig or cabinet yet, so I pulled both chips (glad I used sockets - the gold plated machined pin ones are in the NC20) and inserted the one from the NC20 into the other kit and there was nothing. Took the other chip and put it in the NC20 and there's that little message on power-up that it's supposed to have! Must have been a bad chip. I swapped them around again and nothing. So then I put in the special order NC20 chip and it works fine now. (I didn't want to put that one until I knew there was no problems with the rig)

The first snag I ran into was in section 7. After completing that section I had no variable voltage when I rotated the 10 turn pot. Back and forth to the schematic and circuit board I found that R1 and R100 were not installed - put them in and everything was OK. A day or two after that I went to NorCal's web page and saw the manual correction there.

So now everything to this point works as planed. The VFO is adjusted to send

999 from the AFA at the bottom end of the control. I am so glad that I was able to get one of these kits and also give one away at the same time. I hope that those HAMS that are getting the freebe kits will enjoy theirs as I do mine. Thanks again NorCal and the entire NC20 staff.

Next I'll build the SW-40+ kit that I got just before the NC20 arrived - and then what? Those K2's sound like a great rig - I enjoy reading their posts too.

Thanks for the bandwidth,

72 A1 N2ZHS QRP-1 #1672, NorCal #2226, and now QRP ARCI #9880
Scotia, NY

Date: Sat, 20 Feb 1999 20:32:59 EST
From: J38AL@aol.com
To: qrp-1@Lehigh.EDU
Subject: [33670] Re: NC20 - Installing heatsink on Q6
Message-ID: <469c4412.36cf624b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 2/20/99 4:17:13 PM Eastern Standard Time,
lycott@fox.nstn.ca writes:

<< The cone shape of the Marette worked very well. >>

What's a Marette???

A1 N2ZHS

Date: Sat, 20 Feb 1999 20:47:03 EST
From: B11john@aol.com
To: rfall@witsend.com, qrp-1@Lehigh.EDU
Subject: [33671] Re: K2 SSB option
Message-ID: <fc1f1785.36cf6597@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

The K-2 Option for SSB is not out yet. I too am anxious to get my hands on

the accessory. I have it on order, as well as every other option. What a pleasure to operate. Despite the pleasure of the K-2, I still happily own my QRP++, but maybe not for long.

Bill
K9YEQ

A K-2 tester/happy operator

Date: Sat, 20 Feb 1999 19:41:24 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-l@lehigh.edu
Subject: [33672] Mystery NC2040
Message-ID: <36CF7253.8A8F8E74@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have not had my eyes open lately. Has anyone else noticed the NC2040 mystery machine on the K5F0 web site and posted about it? Or is everyone but me clued in to this "teaser"?

Jess

--
Jess N0TFI <><
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfi/bug.html> Bug Stories

Date: Sat, 20 Feb 1999 18:42:40 -0800
From: Jim Lowman <jmlowman@ix.netcom.com>
To: DBarrett@creo.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33673] RE: Clubs
Message-ID: <4.1.19990220183056.009a6a40@popd.netcruiser>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:30 AM 2/17/99 -0800, Dave Barrett wrote:

>I too have witnessed the demise of many clubs (not only Ham related) due to
>the Old Boy Network problem plus of course the ever present internal

>politics that destroys organizations from the inside outwards.
>NorCal (Doug Hendricks and the crew) have the right idea, they have no
>executive, no rules, no agenda and hence no politics.(my kinda club!!)
>Laura and myself have witnessed the death throws of a large local group of
>Hams that numbered 300 plus only a few years back and held vibrant meetings
>weekly, unfortunately due to the above prevailing condx it is now down to
>two Fridays a month and maybe 6 to 8 members showing up out of 50 or 60
>total. (Pretty sad statement 'eh)

I don't know about the rest of the country and Canada, but there seems to be a
shift in focus here in this part of southern California, from the
general-purpose
local club to public service. Our local club, nearly 200 strong a few
years ago,
is starting to dwindle, especially as the OTs among us find that there's
nothing
of interest for them, and leave for specialized activities such as QRP clubs.

>Anyways, enough negativity, its up to folks like us to "Push" the more
>practical agenda's to the forefront within our own local groups and point
>out the error in our present ways with every opportunity.

Doesn't always work. As a member of the BOD until last July, I talked up what
I perceived to be wrong. Nothing was done.

72 de Jim - AD6CW

Date: Sat, 20 Feb 1999 18:43:41 PST
From: "Bruce Prior" <n7rr@hotmail.com>
To: k3chp@erols.com, qrp-l@Lehigh.EDU
Subject: [33674] Re: Re Paddles
Message-ID: <19990221024342.12309.qmail@hotmail.com>
Mime-Version: 1.0
Content-type: text/plain

Joe and the group--

When I joined the State Department I was afraid I might have to be
evacuated someday, so my Mercury paddle went into semi-permanent
storage. I bought a J.M. March paddle, serial number 0076, as a
substitute. It's a good paddle which served me well for several years.
Now that I'm back home and re-united with the Mercury, I still have the
J.M. March paddle in the shack, but it's disconnected and gathering
dust. It's hard to describe. Let's say the J.M. March key does its job

competently. When I talk with the Mercury in hand, it feels like my CW has authority and zing. It's sort of like the difference between an ordinary comfortable sedan and a sports car. I own the former and use it regularly to get around when I need to go farther than decent walking distance. If I owned a fancy sports car I'd probably invent excuses to drive it. 72, Bruce Prior Blaine, WA N7RR
n7rr@hotmail.com

Joe, K3CHP, wrote:

And speaking on paddles... two years ago during Gaithersburg Hamfest in Maryland I saw a fantastic-looking solid brass paddle made by J. M. March of Winchester, VA., serial 0083. It employs magnetic repulsion and is one of the finest paddles I ever used. I wonder if any of you are using one, heard of it, and/or what is your opinion.

73 de Joe, K3CHP, Riverdale, MD
k3chp@erols.com

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Date: Sun, 21 Feb 1999 02:46:26 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
To: qrp-l@lehigh.edu
Subject: [33675] OHR 100 and Linux
Message-ID: <3.0.16.19990221024616.0a8fefb8@som-uky.campuscw.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

First, if anyone has old issues of Linux Journal they would want to donate to a good cause, let me know.

Second, is there an archive of OHR 100/a mods anywhere?

Surely you didn't think that I was trying to interface my Linux machine to an OHR 100.

tu de Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campuscw.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Sat, 20 Feb 1999 18:55:27 -0800
From: Jim Lowman <jmllowman@ix.netcom.com>
To: cait.martin@ibm.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33676] RE: Clubs
Message-ID: <4.1.19990220184507.009bb520@popd.netcruiser>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:44 AM 2/17/99 -0400, Caitlyn M. Martin wrote:

>Well, considering that the *majority* of hams have no code licenses, your
>club reflects that. Even no coders can do QRP and contesting, just on the
>VHF bands. Why not try to get them interested in *that*? I've found that
>when you do, a surprising number enjoy it and then want to work DX. They
>upgrade.

Out of many at the local club, we have managed to interest exactly two
members -
a father and son - in VHF weak-signal work, after my wife started running a
6/2m
SSB operation at Field Day a few years ago. The father upgraded...all the
way to
Tech Plus!

>As I remember, the VE program requires Extra class hams. Are there some in
>your club? Also, an interest in computers is not a barrier to anything
>else, as you yourself are proving by posting here. Clearly, that is one
>thing you have in common with them.

The VE program doesn't *require* one to have an Extra Class license, but it
sure
makes things simpler, not having to worry about who can administer which
elements.
I'm on two teams locally, and we're all Extras. No no-code Extras, either.
One thing
that I hope to see changed in the restructuring is that Advanced-Class VEs can
administer the General-Class elements. That's why I waited to upgrade to Extra
before getting the VE credentials.

72 de Jim - AD6CW

Date: Sat, 20 Feb 1999 22:17:12 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33677] <fs> Embedded controller stuff
Message-ID: <36CF7AB8.3B523BC9@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Since this group likes to experiment and build, I thought I'd post this here to see if there is any interest.

- 1) Micromint 8052 based embedded development system.
 - Programmable in Basic or 8052 assembler.
 - Two cpu boards, bcc52c and expanded bcc52cx
 - Two 16 channel 12 bit A/D converter boards
 - Two dual port serial comm. boards
 - One bcc55 prototype board (has decodes and prototype space)
 - One eight slot card cage
 - Expansion ROM's A, B and C
 - Basikit integrated development environment (runs on PC)
 - Basic52 programmers reference
 - All documentation.

Original price of this stuff was over \$1600. I'll take \$300+ship obo.

- 2) Motorola 68705EVM microcontroller evaluation module.

This is motorola's development system for the 68705 MCU family. It is a true debugger and simulator, a must for quick development. Code developed on the PC is downloaded and run on the board. The board can be connected in place of the MCU for true simulation. You can set break points and view register / memory contents, online assemble / disassemble. Once debugged, 68705 MCU's can be programmed when inserted into the ZIF sockets. All documentation included. Also includes 39 (Thirty Nine) Motorola 68705P3 MCU's. UV erasable, 2k eprom, 4MHz clock speed, internal 8 bit timer with prescaler, vectored interrupts, 20 bi-directional I/O lines. Great controllers, but considered a bit power hungry by today's standards. Just think of all the things you could automate with 39 of these little buggers! I'll take \$200+ship obo

Thanks for the BW. Please contact me via email with any questions.
72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Sat, 20 Feb 1999 22:29:36 -0500 (EST)
From: Brien Pepperdine <pepperb@gov.on.ca>

To: qrp-1@lehigh.edu
Subject: [33678] QRP+ - for sale (possible)
Message-ID: <Pine.OSF.3.93.990220222313.11062C-100000@govonca2.gov.on.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It is probably healthy to have disparate interests. Some of mine have ebbed and flowed. One has flowed back, so come Spring I have to pay the bill.

I don't know in the current market what to ask - but if anyone has been following and has a true idea of what they wish to honestly pay, they can submit to me an idea of what a QRP+ is worth to purchase. This is not an auction, silent or public. I simply wish to know what I might realize in such a sale, and then decide if I do wish to sell off the QRP+ to gain the cash, or will choose some other method (including luncheon meats for 2 months or actually reading books from the library instead of feeding my used bookstore addiction).

Thanks

Brien Pepperdine
Amateur Radio Station VE3VAW
Toronto, Ontario Canada
ARCI #8773 - NORCAL ZOMBIE

Date: Sun, 21 Feb 1999 13:56:52 +1030
From: aidan@sparkey.aidans.house.in.oz.to
To: qrp-1@lehigh.edu
Subject: [33679] Freeband mod for FT-50RD
Message-ID: <199902210326.NAA16901@sparkey.aidans.house.in.oz.to>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I am looking for a modification for the FT-50RD to do wideband TX, I have made the mars/cap mod (R2047) and removed the link (R2048) to no avail. The mars/cap will let me do 140-174. The other link (R2048) is supposed to let me hold PTT/LAMP/KNOB and powerup, this in theory should then let me change the band to 'free'.. Well it did on the ft-50r.

Does anyone have any insight into a) why it does not work on the RD, and b) what other mods are available.

Many thanks in advance

Aidan Mountford

** Remeber: There is always scope for things to be worse. **

Date: Sat, 20 Feb 1999 19:35:30 -0800 (PST)
From: "David D. Meacham" <ddm@datatamers.com>
To: qrp-1@lehigh.edu
Subject: [33680] Problem with NC20 TX
Message-ID: <Pine.LNX.3.96.990220192944.6205A-100000@dt1.datatamers.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Jim Lyons, Both your addresses bounce for me. It appears that U7, pin 1 is overdriven by a factor of 8 times! It should read about 53mV, not 420mV. Check C14, C66, and C67. C66 might be open. Also check that you have about 884mV at Q3 collector. If so, the problem is between there and pin 1 of U7. Good luck. 72, Dave, W6EMD

Date: Sat, 20 Feb 1999 22:25:46
From: Pierre Dagenais <dagenais@freenet.carleton.ca>
To: J38AL@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [33681] Re: NC20 - Installing heatsink on Q6
Message-ID: <3.0.6.16.19990220222546.34efb192@pop.ncf.carleton.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:32 PM 2/20/99 EST, J38AL@aol.com wrote:
>In a message dated 2/20/99 4:17:13 PM Eastern Standard Time,
>lycott@fox.nstn.ca writes:
>
><< The cone shape of the Marette worked very well. >>
>
>What's a Marette???
>
>A1 N2ZHS

>

>

Marrettes look like candies and are used by electricians to connect household wires.

Date: Sat, 20 Feb 1999 23:04:30 EST
From: PUNISHER3@aol.com
To: qrp-l@Lehigh.EDU
Subject: [33682] I DID IT!! I PASSED MY EXTRA!!
Message-ID: <4a51930f.36cf85ce@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey all. I just can't keep it to myself. Today, i passed my extra class theory (i passed the code 4 moths ago) and so now i am TRULY an extra!! now i have every band, every freq!! i'm so happy. The weird thing is...i haven't even had my license for a year yet....i think its been about 10 months :) I think it might have something to do with my age. I am 14 years old.

73/72 es i hope to hear you guys in the EXTRA portion of the band!!

Ben

NW7DX /AE

Date: Sat, 20 Feb 1999 23:07:27 -0500
From: "The one and only!" <mitch96@pobox.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33683] copper rod vs copper PIPE for ground
Message-ID: <36CF867F.9327F631@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

I got 4, 8' ground rods for my shack ground system and got to wondering.....

what would be the difference in sinking 4, 8' copper water pipes instead of the copper bonded steel rods?

--

mitch Ww4mL

Hollywood, Fla.

Date: Sat, 20 Feb 1999 22:38:33 -0600
From: Jeff Johns <jeffj@scott.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33684] Re: Freeband mod for FT-50RD
Message-ID: <199902210438.WAA31182x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Sun, 21 Feb 1999 13:56:52 +1030, aidan@sparkey.aidans.house.in.oz.to wrote:

> Does anyone have any insight into a) why it does not work on the RD, and
> b) what other mods are available.

Due to firmware changes, the Freeband mod will not work on late model FT50's.

73 Jeff W4JEF

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L #1857 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, A0-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

Date: Sat, 20 Feb 1999 22:42:15 -0600
From: Jeff Johns <jeffj@scott.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33685] Re: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <199902210442.WAA00545x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Sat, 20 Feb 1999 23:04:30 EST, PUNISHER3@aol.com wrote:

> Today, i passed my extra class

Congratulations Ben!

73 Jeff W4JEF

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L #1857 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, AO-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

Date: Sat, 20 Feb 1999 20:45:53 -0800
From: "Ivan Dubinsky" <ivand@uniserve.com>
To: <dagenais@freenet.carleton.ca>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [33686] Re: NC20 - Installing heatsink on Q6
Message-ID: <001801be5d55\$24be30c0\$0459f4cc@ast>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Actually, "Marette" is a brand name, but commonly used to refer to "wire
nuts" here in Canada, eh.

Ivan Dubinsky
VE8ID/VE7
Pemberton, BC

-----Original Message-----
From: Pierre Dagenais <dagenais@freenet.carleton.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, February 20, 1999 8:01 PM
Subject: Re: NC20 - Installing heatsink on Q6

>At 08:32 PM 2/20/99 EST, J38AL@aol.com wrote:
>>In a message dated 2/20/99 4:17:13 PM Eastern Standard Time,
>>lycott@fox.nstn.ca writes:
>>
>><< The cone shape of the Marette worked very well. >>
>>
>>What's a Marette???
>>
>>Al N2ZHS
>>

>>
>Marrettes look like candies and are used by electricians to connect
>household wires.
>
>

Date: Sat, 20 Feb 1999 20:55:16 -0800
From: "Ivan Dubinsky" <ivand@uniserve.com>
To: <mitch96@pobox.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [33687] Re: copper rod vs copper PIPE for ground
Message-ID: <001f01be5d56\$71dafc20\$0459f4cc@ast>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings,

Probably the price you'd pay as you'd likely have to use heavy wall copper pipe to keep it from bending like a pretzel when you pound it in. That stuff isn't cheap, at least around here.

Ivan Dubinsky
VE8ID/VE7
Pemberton, BC
Canada

-----Original Message-----
From: The one and only! <mitch96@pobox.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, February 20, 1999 8:23 PM
Subject: copper rod vs copper PIPE for ground

>Hi Gang,
>I got 4, 8' ground rods for my shack ground system and got to
>wondering.....
>what would be the difference in sinking 4, 8' copper water pipes instead
>of the copper bonded steel rods?
>--
>mitch Ww4mL
>Hollywood, Fla.
>

Date: Sat, 20 Feb 1999 22:55:13 -0600
From: Wayne Alexander <walexan@ipa.net>
To: PUNISHER3@aol.com
Cc: qrp-l@lehigh.edu
Subject: [33688] Re: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <199902210457.WAA00066@ns3.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Congratulations Ben!=20

>Hey all. I just can't keep it to myself. Today, i passed my extra class
>theory (i passed the code 4 moths ago) and so now i am TRULY an extra!! =
=20

Name the freq and the time and I will try to be there.

i hope to hear you guys in the EXTRA portion of the band!!

>=20
73,
N=D8EA
Wayne
Willard,MO
FISTS # 4907
QRP-L # 1058
Web Page <http://www.qsl.net/n0ea>

Date: Sat, 20 Feb 1999 22:18:37 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: PUNISHER3@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [33689] Re: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <Pine.SOL.3.91.990220221346.22622E-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 20 Feb 1999 PUNISHER3@aol.com wrote:

> Hey all. I just can't keep it to myself. Today, i passed my extra class
> I am 14 years old.

Brian,
Congratulations on passing your Extra Class. You have every right to be proud of yourself. I got my Novice at 14, and general at 15 years old. It kept me out of a lot of trouble and launched me in a career in electronics. It's a real accomplishment you'll be long proud of when you got your FCC license before your drivers license! :-)

72, Paul NA5N
ex-WN0NOW 1964
WA0NOW 1965

Date: Sat, 20 Feb 1999 23:31:00 -0600 (CST)
From: ac5ez@webtv.net (Larry B)
To: qrp-1@Lehigh.EDU
Subject: [33690] Re: QRP+ - for sale (possible)
Message-ID: <14992-36CF9A14-40@mailtod-112.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

Brien
I know all about that addiction you have. Just picked up a volume of Shelley and another of Kiplings poetry. Gee, could have bought a roll of ladder line instead.<g>
K1ZW

Date: Sun, 21 Feb 1999 06:07 +0000
From: Rod Cercone <rlc@frii.com>
To: <PUNISHER3@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33691] RE: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <199902210607.XAA21603@deimos.frii.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The crowd noise intensifies; hands wave in the air; quickly to there feet...

S T A N D I N G O!!!!!!!!!!!! YEAH BEN! YEAH BEN! YEAH BEN..... ! ;-)

Nice going Ben. You have a lot to be proud of, and even more to look forward to. Like Paul who posted earlier, I too got my license, Novice & General, when I was about your age. My only regret was allowing my licence to expire in the 70's. (relicensed 5/98, got my Extra last month)

Keep up the good work, there's just no telling where it might lead. For now, get down around 7007kHz and have some fun! :-)

-----Original Message-----

>73/72 es i hope to hear you guys in the EXTRA portion of the band!!

Hope so! I hang around 7007 late in the evening when I when I have the time.

>Ben
>NW7DX /AE
>
>

Date: Sat, 20 Feb 1999 23:33:24 -0800
From: "Dennis B. Dolle" <dolledb@cet.com>
To: <ivand@uniserve.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33692] Re: copper rod vs copper PIPE for ground
Message-ID: <000001be5d6e\$2c9e2520\$835a60ce@dolledb>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ivan,
I've heard of copper pipe being used for ground. The technique used for sinking the pipe is to connect a water hose to the end of the pipe with a hose clamp, turn on the water, and let the water do the work of digging a hole for the pipe as the pipe is pushed into the ground. The reported disadvantage is that the water will actually wash the hole slightly larger than the copper pipe and hinder the good contact between the earth and pipe as would be obtained if a rod were driven into the earth. I have never tried this method, so consider this info anecdotal.

One method I used with great success with 8' ground rods in heavy clay soil

of northern Louisiana was to pour a small amount of water on the ground and just push the rod in by hand. When the rod became difficult to push after a few feet, I would just pull up the rod a little and pour in a few more ounces of water. Then I could push the rod in a few more feet. In just a few minutes I could push in an 8' rod almost completely by hand using a hammer only on the last foot or so of rod as getting leverage became difficult on the short rod. Joe Provost, W5RYJ, related this technique to me shortly after I moved to Louisiana. I was sure that Joe was just funnin' the city kid, but after about 30 minutes of hammering on my first ground rod with no discernable movement into the ground, I tried Joe's method and just pushed the rod in. I couldn't believe how well this worked, but I installed five or six ground rods that way. Who'da thunk it??!! Have not (yet) tried this here in Eastern Washington.

Dennis, NX5W
Spokane, WA

Date: Sun, 21 Feb 1999 19:05:41 +1100
From: "Graeme Zimmer" <gzimmer@vic.bigpond.net.au>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33693] Re: copper rod vs copper PIPE for ground
Message-ID: <04d201be5d70\$f9e669a0\$6a18c018@vic.bigpond.net.au>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings all,

Another alternative for ground rods are the galvanised star pickets which are used in place of an ordinary metal fence post to earth an electric fence unit.....

It seems that the normal tar painted pickets can make a lousy ground, especially with the higher powered electric fences...

These galvanised ones can easilly be belted in using the special star picket driver and they do have a hell of a lot of surface area.....

I dunno what "star-pickets" are called in the USA though.....

73's Zim VK3GJZ

Date: Sun, 21 Feb 1999 03:17:41 -0500
From: Willie Martin <71052.134@compuserve.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [33694] HW-7 Problem Update
Message-ID: <199902210318_MC2-6B3B-B126@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Thanks to all who provided input to my question. I put in a substitute diode for ZD1 (VR-36A).

Bingo, Unit has power and dial light functioning.

Will continue testing later this morning. 2 a.m. in Arkansas and I must get some sleep.

Thanks again es 72/73,
Willie

Date: Sun, 21 Feb 1999 00:36:32 -0000
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [33695] Re: Clubs
Message-ID: <009501be5d33\$38dd6020\$8539ac3e@p75>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The club situation in the UK follows the same trend. I wouldn't go as far as saying the situation isn't reversible, but we are facing sociological changes here. People just aren't as keen to join groups anymore. Perhaps because they would rather sit in front of a tube or maybe they just aren't as social as folk once were. Youngsters are the hams of tomorrow, and we are

generally more fearful about letting them out at night and associating with strangers nowadays.

My local "vanilla" radio club
(<http://www.btinternet.com/~g4wif/cvrs.htm>) has been going for over 50 years and is on its last legs. We have a small committee that does all the work, and a membership that is happy to make helpful suggestions and attend the arranged talks, but ask them to actually help or even arrange one visiting speaker per year, and everyone takes several steps back. Committee members eventually just wear out from doing all the work.

In terms of ham radio, the one area of enthusiasm still bubbling away, is the special interest groups. Satellite, Data and of course QRP. There is real growth here - just look at the explosion of QRP clubs across the US (we seem to manage with just one over here!). Within QRP we have seen that clubs can thrive whether they have a committee or not. The enthusiasm seems to make it all work, but what the future is for the more general clubs, and how to fix the decline, is beyond me and I'm not sure if it is indeed fixable, the willingness from the general club members is just not there.

Depressing isn't it?

72

Tony - G4WIF

Date: Sun, 21 Feb 1999 06:06:07 -0600
From: Chuck Carpenter <w5usj@unicomp.net>
To: mitch96@pobox.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33696] Re: copper rod vs copper PIPE for ground
Message-ID: <3.0.1.32.19990221060607.006aba50@mail.unicomp.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Using copper pipe would be acceptable if you could get all 8 ft down into the ground. If you have loose ground with no stones or other hard objects, this might work. If you hit a stone or somesuch, the copper pipe could curl and possibly come back up near where you started.

Around here, the power companies allow both copper clad rods and galvanized rods and they specify driven and not suckered. Suckering is when you use water to help get the rod down into ground. The reason is that you lose some of the contact surface between the rod and the earth when you use water. I start the rods about the first foot or so with water then drive them the rest of the way, first with a 4 lb maul then finish with an 8 lb maul.

Another method allowed by some of the power companies is to dig a trench and lay the rod in length wise. Results might be similar to copper water pipes under a slab I suppose. I always felt this wasn't a good ground and never tried it. Measuring the conductivity of several methods and types of ground rods at your location would let you know which method is most acceptable.

72/73, Chuck, W5USJ, Point, TX EM22cv -- ARCI #5422 QRP-L #1306

Date: Sun, 21 Feb 1999 06:09:34 -0600
From: Chuck Carpenter <w5usj@unicomp.net>
To: PUNISHER3@aol.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33697] Re: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <3.0.1.32.19990221060934.006aedb0@mail.unicomp.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Congratulations, Ben.

Your desire and youthful enthusiasm were certainly assets for your accomplishment.

72/73, Chuck, W5USJ, Point, TX EM22cv -- ARCI #5422 QRP-L #1306

Date: Sun, 21 Feb 1999 08:12:52 -0500
From: Hank Kohl K8DD <k8dd@contesting.com>
To: mitch96@pobox.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33698] Re: copper rod vs copper PIPE for ground
Message-ID: <4.1.19990221080856.02f6b130@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Copper pipe will work fine if you get some concrete reinforcing rod (re-rod) to put inside the copper pipe. Smash the bottom end so the re-rod won't go through.

Solder your copper ground wire onto the copper pipe.

Then insert the re-rod.

Clamp the wire with a good grounding clamp. Now you have a good electrical and mechanical connection from the grounding wire to the copper pipe.

Drive the ground rod.

It's a little more work, but I've found it to be less expensive and just as good as the electric company's ground rods.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS http://www.tir.com/~k8dd
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Sun, 21 Feb 1999 08:48:04 -0500
From: "The one and only!" <mitch96@pobox.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33699] Ground rods vs pipe
Message-ID: <36D00E94.848D1900@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

THIS GROUP IS FANTASTIC,
one little miscellaneous rambling of the mind and i get so much useful
info..... i cant stand it. i think im gonna sit down.... after i
return the rod (\$10 ea) and pick up the pipe (\$5 ea) and use the hose to
blow away the loose florida sand and sink my copper tube super dupa
ground system!! BTW i think that's how the egypt knocked down the sand
tank barriers in the 6 day war..... water hoses. aaaaaahhhhhh keep it
simple.

--
mitch Ww4mL
Hollywood, Fla.

Date: Sun, 21 Feb 1999 07:25:48 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [33700] FS OHR100 & SCAF Filter
Message-ID: <199902211423.HAA10121@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have an OHR 100 on 30 Meters, plus a SCAF Filter for sale. Both in
excellent condition, with documentation. Will sell the pair for \$150.00 or

the 100 by itself for \$90.00, the filter for \$65.00. First come, first served, but I'll keep a list in case the first deal doesn't go through :^).
72,73

Bob Hightower KI7MN Chandler, AZ DM43BI

<http://www.extremezone.com/~ki7mn>

Date: Sun, 21 Feb 1999 08:46:01 -0600
From: sda <sda@bellsouth.net>
To: qrp-l@Lehigh.EDU
Subject: [33701] Copper ground pipe installation
Message-ID: <199902211445.JAA07892@mail2.lig.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

In the January 1999 issue of QRP Quarterly on page 10, there is an article by Larry East, W1HUE called "Easy Ground Rod Installation". He describes how to take a copper pipe and using a small piece of hose/clamp attach it to a water spicket connector. There is also a picture in the article for clarification. He also states "Keep in mind that when a ground rod is used for lightning protection, ground wires should be securely clamped (or braised) to the pipe, not soldered."

Hope this helps.

72/73.

Todd Atkins
K4MSW
Baton Rouge, LA

Date: Sun, 21 Feb 1999 10:12:58 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:PUNISHER3@aol.com" <PUNISHER3@aol.com>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>, //QRP-L Discussion Group <QRP-L@Lehigh.edu>
Subject: [33702] I DID IT!! I PASSED MY EXTRA!!
Message-ID: <199902211015_MC2-6B2F-945A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Ben:

Well congrats from an Old Timer, guy (licensed in 1960). May your days of hamming be long and FUN :-). It's guys like you who keep our great hobby going. Again, congrats!

72/73,
--Doc Lindsey/K0EVZ
DSBF
P.O. Box 7187
Bismarck, ND 58507
E-Mail 70511.3041@compuserve.com

Date: Sun, 21 Feb 1999 10:42:15 -0500
From: "Paul Helbert, Wv3j" <phelbert@rica.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33703] Lost bookmarks
Message-ID: <36D02957.D435A23@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gangue,

Late last night I lost several years' accumulation of bookmarks under Netscape 4.06. The bookmark file was long so that it took going to "More Bookmarks" or "Edit Bookmarks" to get to that part which exceeded a screenfull. This morning it is truncated. Only the first five categories come up. All the rest is inexplicably missing.

I presume that I must have inadvertently hit a wrong key sequence to cause this. I would appreciate any suggestions which might lead me to the recovery of the missing bookmarks.

Thanks,

Paul, Wv3j
.....and the winning ticket at Atlanticon is #93.

YES!

Date: Sun, 21 Feb 1999 08:02:39 PST
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [33704] Grounding with no connectors
Message-ID: <19990221160240.13020.qmail@hotmail.com>
Mime-Version: 1.0
Content-type: text/plain

Years ago I moved to Barrow, Alaska during its one month of summer weather. I found a roll of heavy gauge solid copper wire out on the tundra. I cut off a very long part of it and snaked one end directly to my station in the house. The rest was strung out so I could toss it into a sewage lagoon (How's that for waterfront property?!!) Which was somewhat saline, but not quite so saline as the nearby Chukchi Sea. I buried the part between the lagoon and the house in the sandy soil. By mid-winter, the lagoon was frozen solid, except for a tiny portion right near the sewage outflow. I'm sure the freezing decreased its conductivity considerably, but it was the best I could do in that situation. That's a pretty peculiar physical setting, but the idea of using a long length of heavy copper wire without the need for any connection to a ground rod seems to make sense, and could be done lots of other places. 72, Bruce Prior N7RR Blaine, WA

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sun, 21 Feb 1999 11:10:33 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: qrp-1@Lehigh.EDU
Subject: [33705] painting engraved panels ?
Message-ID: <Pine.LNX.4.04.9902211103060.905-1000000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does anyone have any experience painting panels that have engraved lettering?

I want to restore some equipment that has some and wonder how the white lettering is restored. I am thinking that there might be a product that is applied and the excess wiped off. Is this correct or does someone have to paint it on? Refinishing the rest is easy using automotive type paints and a spray gun. I have remove 50 years of wear and tear.

73,

Jim n2go

Date: Sun, 21 Feb 1999 11:16:31 -0500
From: ntan <ntan@crosslink.net>
To: QRP-L <qrp-l@lehigh.EDU>
Subject: [33706] qrp rtty
Message-ID: <36D03155.535513C9@crosslink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings from the old Dominion-

Can anyone give me a few pointers on using Blaster Teletype. I've downloaded it and all the instructions, but since I'm not too swift with pc lingo, I'd like to see this thing work, painlessly. When I first turn it on, it seems to check the system irq, dma etc??? and shows that its all valid??? So then I hook up the rx and plug it in the back of the pc and now what??? I don't get the indication that a signal is being received, but if I back the plug out so just the tip is connected to gnd, the screen now writes a bunch of gibberish, but there is stilll no indication about receiving a signal..... It goes on to talk about the I/O control panel ????? I am lost.....Neil WA4CHQrp Keep it LOw and KIS

Date: Sun, 21 Feb 1999 08:14:07 -0800
From: "Bruce" <Bruce2@prodigy.net>
To: <qrp-l@lehigh.edu>
Subject: [33707] Grounds and copper pipe.
Message-ID: <002201be5db5\$369746a0\$54809cd1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If one lives on Florida or another state where pipes can be jetted into the earth with water pressure by all means use this method. (I have done hundreds.) Just space the pipe 8 feet or so apart--connect then all together with braid and-- and tap your ground into the braid at its center point.

If you live in an area where by there is hard pan or rock down a few feet and the rods either won't drive down or are hard to drive down then use the following method and you will have an even better ground system.

Just dig a narrow trench 12-18-24" deep and just lay 10 foot lengths of copper 1/2 water pipes in the ditch and solder them together just as you would if it was a water pipe. At your center point from the end put in a Tee and stub up a piece of 1/2" copper. This is where you will connect your ground braid.

In other words, lets say you put in 50' of copper pipe lengthwise. At the 25 foot point you would place a Tee and stub it up. The importance of an excellent ground is most often overlooked by the amateur. The better the ground system the better the transmission and reception of the station and the safer the station.

What is most important in the grounding system is not the depth of the rod or pipe but rather the surface area of the grounding system that is contact with the earth. Thus for OUR purposes one can think of having 50 or 100 feet of copper pipe in the earth as similar to having a ground rod driven 50 or 100 feet into the earth. One will end up with an excellent ground without having to drive and bend rods through and into rock which of itself (solid rock) is a poor ground.

Bruce WB4WZL

Date: Sun, 21 Feb 1999 11:21:52 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-1@lehigh.edu
Subject: [33708] fy/dj0pj qrp on 24.904 1610z
Message-ID: <36D032A0.EDB5ADE9@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

new 2XQRP--Zack W1VT in Newington

Date: Sun, 21 Feb 1999 11:33:37 -0500 (EST)
From: Thom <thom@li.net>
To: Mike Czuhajewski <wa8mcq@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [33709] Re: QRP Quarterly on the streets
Message-ID: <Pine.SUN.3.95.990221113237.16241B-100000@linet01>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi,

I was wondering if everyone has received the winter issue of the QRPP quarterly. I haven't received mine yet, but if they're still on the way I can be patient

Thanks

Tom

WB2QDG

Date: Sun, 21 Feb 1999 11:37:10 -0500
From: Tom McCuen <tjmc@erols.com>
To: jskalski@buffnet.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33710] Re: painting engraved panels ?
Message-ID: <36D03636.F135C9FB@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> I want to restore some equipment that has some and wonder how the white
> lettering is restored. I am thinking that there might be a product that is
> applied and the excess wiped off.

I've use "white-out" for this purpose.... the kind use to correct yr typing mistakes.

If yr quick, you can fill the indents and wipe it quickly getting off the excess... the stuff is bright white and stays put very well.

Just try it a few times on something else first, it takes a little practice... if you don't like it then remove with alcohol and a brush and try agn.

good luck
Tom aa2vk

Date: Sun, 21 Feb 1999 10:57:49 -0600
From: mike1@urbancom.net (Dinelli, Michael)

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33711] RE: painting engraved panels ?
Message-ID: <001101be5dbb\$503e99e0\$10af51d1@mike1.urbancom.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I would try "One-Shot" sign painters paint. It's used for pinstriping cars and I've seen mistakes wiped right off. Of course, I would try it on an inconspicuous part of the cabinet first to make sure it didn't lift the panel paint.

73 de Mike, N9BOR
FISTS NR 4594
<http://www.qsl.net/n9bor>

di dah dit - The only roger beep you will ever need.
My designated driver is a 12BY7A.
Solid State leaves me cold.

Date: Sun, 21 Feb 1999 11:56:44 -0500
From: "Ken & Linda Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [33712] RE: I DID IT!! I PASSED MY EXTRA!!
Message-ID: <007201be5dbb\$903c6fe0\$4307f0d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Ben---Congratulations on passing your Extra Class. You can be proud of =
your accomplishment. You did it the old fashioned way, you earned it.

Ken/ne0c
USAF Retired
Flushing, Ohio
ne0c@1st.net

Date: Sun, 21 Feb 1999 12:02:43 -0500
From: Tom Palmer <n1tp@worldnet.att.net>
To: zlau@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33713] Re: fy/dj0pj qrp on 24.904 1610z
Message-ID: <36D03C32.DDE3FBA3@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Worked him with one call at 1700.
@ 24.904.20. He's 539 in SW FL.

Tom, N1TP

Zack Lau wrote:

> new 2XQRP--Zack W1VT in Newington

Date: Sun, 21 Feb 1999 09:01:54 -0800
From: David Shalita <af389@lafn.org>
To: Thaire Bryant <tbry37@ici.net>
Cc: qrp-1@lehigh.edu
Subject: [33714] re:Subject: DL QRP PA
Message-ID: <36D03C02.1BE8BA0@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Thaire,
I ordered mine but have not received as of 2/20/1999.
73, Dave, W6MIK, af389@lafn.org

> From: "Thaire Bryant" <tbry37@ici.net>
> To: <qrp-1@lehigh.edu>
> Subject: DL QRP PA
>
> Has anyone ordered and received the QRP PA from the

> DL Funkamateur web site? The site says that shipping
> started on Feb. 5.

> Thaire W2APF

Date: Sun, 21 Feb 1999 17:18:36 +0000
From: Peter Larsen <larsenp@cadvision.com>
To: ivand@uniserve.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33715] Re: copper rod vs copper PIPE for ground
Message-ID: <36D03FEC.D87295B5@cadvision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All:

I prefer the mild steel ground rods to any thing else. But
having said that, the easiest way to put copper pipe into the
ground isn't to pound on it like you would a ground rod.
Rather you solder on a fitting that matches it to your garden
hose. All you have to do then is turn on the water and let it
dig the hole for you.
When you are finished just fill the pipe with epsom salts and
cap it off.

--

73 es have fun
Peter
VE6YC D021wc

Artificial intelligence is no match for natural stupidity.

Date: Sun, 21 Feb 1999 09:25:04 -0800
From: Bill & Merleigh Jones <kd7s@psnw.com>
To: qrp-l@lehigh.edu
Subject: [33716] NorCal 20 - LSB vs USB
Message-ID: <3.0.5.32.19990221092504.007a1730@mail.psnw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Friends,

Is there a sound technical reason to adjust TC6 for lower sideband? The manual states, "....check that when tuning up the band (clockwise), the audio frequency goes from high to low - this is the correct (lower) sideband." What makes it "correct" and what happens if I use the upper sideband instead?

"I am the vine, ye are the branches
...without me ye can do nothing."

<>< John 15:5 <><

Date: Sun, 21 Feb 1999 12:25:29 EST
From: Ed Loranger <we6w@juno.com>
To: phelbert@rica.net
Cc: qrp-1@Lehigh.EDU
Subject: [33717] Re: Lost bookmarks
Message-ID: <19990221.091945.6999.1.we6w@juno.com>

Wow Paul, I hope you find them.

In the past I make a copy of the bookmarks file every couple of months and with UNIX I have long filename capabilities, I guess all the Windows machines do now too..... So I use a name with a changing suffix like: "bookmarks.19990415" for April 15th 1999.

But I have found it easier just to send email to myself with a URL in there and file it in an appropriate folder when I look up something. So the bookmarks haven't been so important anymore.

I even protected myself once by editing my bookmarks down to just the Ham activities and posted it to my web page :) I updated that nearly 8 months ago and don't know if it is really worth it. But it is a snapshot.

Hope this helps with future efforts to preserve the work. Maybe Netscape saved off an old copy or an overflow copy?

Or who know's??? Maybe Netscape split the file for you and there is a bug in their code and all is really available to you still?

Stab in the dark thoughts.

Good luck and I hope someone can help. Undelete?

-Ed

72, Ed WE6W, AR Millennium QSO's=454/2000

<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA

QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Feb 1999 12:32:44 -0500
From: Bill Wetherill <n2wg@wilmington.net>
To: qrp-l@Lehigh.EDU
Subject: [33718] FS: OHR 400 w/ built in iambic keyer
Message-ID: <1.5.4.32.19990221173244.00675c20@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Still FS: OHR 400 w/ built in iambic keyer
4 band (20,30,40,80) QRP CW only transceiver. Excellent condition.
Now \$230.00 shipped CONUS
email: <n2wg@wilmington.net>
Phone: (910) 395-1429 - Wilmington, NC

72, Bill - N2WG

"PURITY OF ESSENCE" --- QRP

Date: Sun, 21 Feb 1999 12:50:37 -0500
From: ntan <ntan@crosslink.net>
To: QRP-L <qrp-l@lehigh.EDU>
Subject: [33719] re:qrp rtt
Message-ID: <36D04764.89BDB719@crosslink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, I guess if I took the time to actually read the instructions, I'd find that most of the answers were there. I did get it to read and its really pretty neat. Haven't set up to transmit yet. Once again grasshopper, seek and ye shall not be such a dork! WA4CHQrp

Date: Sun, 21 Feb 1999 12:54:13 -0500 (EST)
From: malman@world.std.com (joel malman)
To: qrp-l@Lehigh.EDU
Cc: k1qm@world.std.com
Subject: [33720] NE QRP Club meeting
Message-ID: <199902211754.AA24798@world.std.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Group,

Is anyone from the E.Mass/NH area going to the NE QRP Club meeting at ARRL HQ on 7 March??? Want to share: ride - gas - tolls - qrp gossip?

--
/joel K1QM (Ex-wa1qvm) Concord, Massachusetts
QRP-L 337, QRP-ARCI 9305, MI-QRP 1641, NorCal #1884

Date: Sun, 21 Feb 1999 13:09:30 -0500
From: Jim or Jade Seeber <kw3u@warwick.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33721] Free books
Message-ID: <36D04BD9.3797877F@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi gang;

I wound up with a large box (tnx UPS) for some reason of Harris tech books. They mostly are specific on chips and devices they make. great reading or referance for those so inclined.

These are abt the size of an arrl handbook or smaller.

They can be had for free, I wud appreciate the postage stamped on box though.

following is the list:

Power Mosfets,buffered mosfet intelligent discretes 1994
data acquisition products 1997
Radiation Hardened power mosfets 1998
Linear ics for analog signal processor applications 1996/97
Digital signal processors 1994
Applications for communication ic's 1997
Transient voltage suppression 1998
igbt ufs series supplement 1997
Microprocessor products 1997
Intelligent power ics for commercial, indust,&auto apps 1994
Communications data book 1997
Mct/igbts/diodes 1995

Whew, thats it, please let me know ur needs...Again FREE..

72 Jim

Date: Sun, 21 Feb 1999 13:18:49 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [33722] Re: copper rod vs copper PIPE for ground
Message-ID: <3.0.32.19990221131845.006de820@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

just fill the pipe with epsom salts and
>cap it off.

>

>--

> 73 es have fun

> Peter

> VE6YC D021wc

>

>-----
>Artificial intelligence is no match for natural stupidity.

>

>-----

>

>Peter...I agree with your hosing method and I'd like to add
that many defunct garden hoses will fit very well over copper
tubing. (You know...the hose that you thought the mower blade
would clear-Hi!). Simply push on and seal with a hose clamp.
What are the epsom salts for? Conductivity?

I thought epsom salts were to soak your feet in although I've never had to resort to such tactics.

73 Pete W4VCT

Somewhere south of Nonesuch, Kentucky

Date: Sun, 21 Feb 1999 13:42:34 +0000
From: joseph r nappier <kt4pm@gte.net>
To: kw3u@warwick.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33723] Re: Free books
Message-ID: <36D00D4A.78C4@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim or Jade Seeber wrote:

>
> Hi gang;
> I wound up with a large box (tnx UPS) for some reason of Harris
> tech books. They mostly are specific on chips and devices they make.
> great reading or referance for those so inclined.
> These are abt the size of an arrl handbook or smaller.
> They can be had for free, I wud appreciate the postage stamped on box
> though.
> following is the list:
>
> Power Mosfets,buffered mosfet intelligent discretes 1994
> data acquisition products 1997
> Radiation Hardened power mosfets 1998
> Linear ics for analog signal processor applications 1996/97
> Digital signal processors 1994
> Applications for communication ic's 1997
> Transient voltage suppression 1998
> igt ufs series supplement 1997
> Microprocessor products 1997
> Intelligent power ics for commercial, indust,&auto apps 1994
> Communications data book 1997
> Mct/igbts/diodes 1995
>
> Whew, thats it, please let me know ur needs...Again FREE..
> 72 Jim

Date: Sun, 21 Feb 1999 11:58:42 -0700

From: jaywa5whn@juno.com
To: qrp-1@lehigh.edu
Subject: [33724] Abusing the NEC-2 model {or trapped in DFW awaiting an aircraft}
Message-ID: <19990221.115847.-308831.0.jaywa5whn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Since the NEC-2 model has one major geometry dependency {circular} for the individual antenna elements { wires, pipes, etc. diameter > 0.}, it makes for some interesting approximations when trying to compute micro strip transmission lines & antennas. Let's see, where's my Exacto knife & micrometer?

You can obtain errors of well over 200% when trying to approximate micro strip line antennas & impedances while abusing a NEC-2 model simulation. Most micro strip line designs are a solid rectangular geometry. The NEC-2 model is not designed to support micro strip transmission lines. I am a software abuser.

You can refine the model of the micro strip line approximations with numerous individual elements shaped as squares & really close spacing, {Whew! Lots of wrist cramps typing, especially those of us who had learned how to type using the 2 finger method}. The error starts to drop. FYI-This model chokes a 266 MHz laptop Pentium. :-)

One other interesting quirk while abusing the current NEC-2 model, if you try to simulate a multi-element micro strip transmission line, you have to approximate the individual elements using a closed spacing square element method, ie: It begins to look like closed spaced squares with lots of elements. {Waveguide} The error starts to drop below 100%. {Excluding dumb typing errors.}

Interesting exercise for abusing the EZNEC software, if you are trapped on a cross country plane trip awaiting a certain Dallas, Tx based Airlines to get over their alledged Pilot sickness, you can try simulating a multi element HF square loop antenna on your laptop. Make the first approximation a 2 element square {quad} then refine it using an octagon geometry. Next move that design up in frequency up & bring the spacing in closer, between the elements, while adding individual elements. Hmmm, almost a circular wave guide.

If you are trapped for only a few hours in DFW, use the NEC-2 model to see why you don't get much above 10 db forward gain if you try to add more than 10 elements to a Yagi design.

LB {W4RNL}: I have been paying attention. :-) LB's web page continues to be very beneficial to me. It's a valuable learning tool.

Let me state that I am a very happy camper abusing the software sold by W7EL {ELNEC & EZNEC}. There are other vendors out there too. I have learned a lot, especially since I suffer from a learning handicap. I was educated in the New Mexico Public School System.

Now if I can only get my hands on a 1 GHz Alpha Platform & beat the US Weather Bureau at their own weather predictions {< 24 hours} & model the US stock market at the same time. Hmmm, a 1 GHz CPU, I wonder if I can modulate the clock. Another QRP tx. ;-)

72...Jay, WA5WHN DM65qd

Albuquerque, NM USA

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Feb 1999 14:25:30 -0500
From: "George Heron" <gheron@nac.net>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [33725] Atlanticon talk preview #2: TECHNIQUES AND TOPICS FOR 6-METER DESIGN
Message-ID: <016901be5dd0\$484dedc0\$4c327bd1@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks, here's another preview of one of the exciting talks being readied for the Atlanticon QRP Forum next month. These topics and papers are being put into the Forum Proceedings and copies will be available only for Atlanticon attendees ... so if you want to get the Proceedings and hear the topics explained by the experts themselves, you'll have to be there with us in Baltimore on March 27th!

=====

"TECHNIQUES AND TOPICS FOR 6-METER DESIGN", by Dave Benson,
NN1G

"Six Meters is an intriguing band, offering both compact antenna sizes and the tantalizing prospect of occasional DX at very low power levels. Despite this, design articles and products for this band are few and far between. This presentation will discuss some of the constraints facing the prospective designer and suggest some possible approaches for experimentation."

DAVE BENSON, NN1G is certainly no stranger to our QRP community. He was first licensed in 1967 (as WA1GMT), and the "homebrew bug" bit early - his first QRP contacts were in the 80M Novice band using a crystal-controlled 2N706 transmitter.

Dave graduated from the University of Connecticut in 1976 (Electrical Engineering), and he first worked in Phoenix and Albuquerque for Honeywell's Flight Systems Division. Part of a displays design group, Dave was responsible for a number of video and communications terminal designs. (If you've seen the F-15 bomb-camera recordings from the Gulf conflict on the evening news, that's his handiwork.) Dave holds several design patents in this area. More recently, he'd been contributing on a helmet-mounted display program for the Army's new Comanche helicopter.

Dave began writing for the ARCI's QRP Quarterly in 1990, despite the dire predictions of most of his high school English teachers! He served as technical editor of QQ before 'going commercial' with his venture, Small Wonder Labs, in 1994. This grew from his work on the classic '40-40' project for the New England QRP Club. As of 1996, he's devoted full-time to this activity, and continues to publish, most recently in NorCal's QRPP and the ARRL's QST magazine.

=====

Remember to pre-register for the Atlanticon QRP Forum with Dave Maliniak, N2SMH at dmaliniak@penton.com. We already have our limit of 110 QRPers, but we've establishing a WAITING LIST in case some of those pre-registered people can't make it. (If you are on the list but UNABLE to actually make it to Atlanticon next month, please let Dave know so others may attend.)

Remember that you can see all details for the Atlanticon 99 QRP Forum at <http://www.njqrp.org/atlanticon/> on the web, or by sending an e-mail to EMBOT@NJQRP.ORG and put SEND ATLANTICON in the body of the message. An e-mail will be returned to you almost immediately containing all info about the first big QRP event of the season!

Thanks all.

72/73,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ
for the NJ-QRP Club at <http://www.njqrp.org>

Date: Sun, 21 Feb 1999 12:37:28 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: kd7s@psnw.com
Cc: qrp-1@Lehigh.EDU
Subject: [33726] Re: NorCal 20 - LSB vs USB
Message-ID: <19990221.123729.-4119699.0.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bill and the NC20 builders,

If you look in Paul Harden's "Data Book for Hombrewer's and QRPer's" in the section on crystal filters, you will see the reason. The skirt of the IF passband is much steeper on the LSB side - up to 50% less bandwidth than the USB side. Additionally, the opposite sideband rejection is *much* better with the BFO tuned this way, so the single-signal reception will be much improved. This is due to the differences in the crystal's series resonant and parallel resonant frequencies, which are not the same.

When you set the BFO of your NC20, first disable the AGC by shorting across the two small pads marked AGC2. This will allow you to see much better peaks when the BFO is adjusted. You should also do this when aligning the RX bandpass filters, TC2 in the T/R switch, and the tuned

L2 circuit in the RF amplifier's Drain lead.

Use an AC voltmeter at the output of U6 to indicate the AF level as you tune these circuit. The top of R58 is a convenient point to place one of the leads of the AC voltmeter, the ground or common lead can go to one of the crystal grounding wires. Use another rig set for low output into a dummy load for a test signal, or a signal generator if you have one. I prefer to have the antenna connected to the NC20 as this allows trimmer TC2 to be set more accurately than when using a dummy load.

Slowly tune BFO trimmer TC6, while observing the AC voltmeter for the best peak. Use the main tuning control or RIT tuning to keep the test signal in the IF passband. Repeat this procedure several times until you are certain the BFO is set to the best frequency that allows the most signal to pass through the IF filter. An audio frequency counter on my prototype and final NC20 kit shows about 700-710 HZ as the beat note from the product detector that produces the greatest response through the IF filter.

I have also noticed that the BFO can be crudely set using just by using noise coming through the receiver if you don't have a good way to simulate a low-level signal source. Just use the AC voltmeter as before, and set the AF gain wide open. If you place an audio frequency counter across the speaker output, even on just this noise, you will see that the IF filter and product detector, AF filter and AF power output stage will pass mostly noise with an average frequency content of about 700 Hz. This is a rather crude way to set the BFO for best IF filter response, but it seems to work pretty well. Tune the BFO for the greatest indication of noise on the AC voltmeter.

If you set the BFO to the other side of the IF filter skirt, you will see much less signal reading on your AC voltmeter. After you perform these adjustments a few times, your ear will begin to roughly detect the change in tone of the audio noise, and you can get pretty close to the optimum setting before you use the AC voltmeter to set the BFO for peak signal. BFO trimmer TC6, is pretty touchy so it will take a few times to find the "sweet spot" of the IF passband and BFO setting.

I find it easier to use the RIT control with reduced range to make small tuning changes when performing RX alignments. In the NC20, you can change the value of R5 from 330k to a much higher value of perhaps 820k or even 1M. But that requires removing R5 from the PCB, and I found simply tacking a smaller resistor of 3.3k to 4.7k right across RIT control VR2 to be much easier and more effective in reducing the RIT control. You can easily remove or change the value of this resistor to see how it affects the RIT range. I prefer less RIT range as it makes it easier to stay away from the strong detent in the RIT pot, and is best for my style of operating where I don't do a lot of split-frequency operation for DX

hunting.

I believe this is how Chuck Adams K5F0 changed his rig's RIT range, and after experimenting with this method I believe it to be the preferred approach. It is certainly easier, and the paralleled fixed resistor across VR2 will certainly cause no harm, and may actually be a better way to reduce the RIT range as it prevents having such a high impedance connection to U1 from the RIT circuit and the adverse effects of any possible leakage from Q1. This could appear as noise modulation or chirp on the VFO tuning voltage to the VFO varactor. Make sure that C3 is a 0.01 uF cap, or from tests I've conducted - it looks like C3 can be removed entirely. No delay is needed in switching Q1 as would be the case with this circuit in AF stage muting. If C3 is too large, it can affect the return of the VFO frequency during RX/TX switching.

72 and good luck building and aligning your rigs.

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Date: Sun, 21 Feb 1999 11:34:58 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [33727] A new way to cheat.
Message-ID: <36D05FE2.BE2B825@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For those others who are high speed CW challenged:

I was working the contest this weekend and having a hard time with a particular call. The problem was distinguishing between an S and an H at speeds of about 45 wpm.

I recorded it as a wave file with my computer. Then looking at the file graphically you could see the call perfectly and count the number of dits. It was an H.

It was kind of interesting, because I could see why I had trouble. The

second dit was about 65% of the amplitude of the three other dits. I think I heard it sometimes and not others. I recorded it several times and this phenomenon was consistent.

The other nice thing was the memories on the K2. I recorded them at 20WPM and played them back at 40. Then I was able to work those fast guys even though I can't send consistently yet at those speeds.

The contest is great. The K2 is now well on it's way to DXCC.

--

73 de AC6KW <mailto:grudin@vdbbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sun, 21 Feb 1999 12:54:03 -0800
From: Ray Colbert <af852@rgfn.epcc.edu>
To: jskalski@buffnet.net, qrp-l@lehigh.edu
Subject: [33728] Re: painting engraved panels ?
Message-ID: <36D07251.6C98@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In addition to using white-out in the past, the old reliable that was used when redoing R390 panels and various others of that type, a white grease pencil will work very well, and it rubs off if you go past the engrave marks.

--

Ray Colbert,
(also w5xe@juno.com)
El Paso, Texas (Far West Texas)

Date: Sun, 21 Feb 1999 12:57:24 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: qrp-l@lehigh.edu
Subject: [33729] RE: NC20 BFO setting correction
Message-ID: <19990221.125724.-4119699.1.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In my previous post, I wrote:

>>>>

The skirt of the IF passband is much steeper on the LSB side - up to 50% less bandwidth than the USB side.

<<<

Ooops, of course I got that reversed between looking at the diagram and keying it in the computer. Obviously, the USB filter slope is the one that is much steeper and narrower. We want to pass the LSB slope of the filter, and reject the USB side since it is so steep it is easier to cut off from the passband.

Sorry for the confusion, and I hope that makes it more clear as it is a little tricky to understand anyway. Read Paul's explanation in the book as it has the diagram to refer to and that makes it a lot easier to understand. :-)

For those of you who don't care about the theory, just tune the BFO for maximum signal level from the speaker and you'll have it correct. ;-)

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Date: Sun, 21 Feb 1999 12:55:53 -0700
From: wo7t@juno.com
To: qrp-l@Lehigh.edu
Cc: wo7t@juno.com
Subject: [33730] NC-20; Section 13 Anomaly
Message-ID: <19990221.125714.3286.2.wo7t@juno.com>

Hello Gang:

Well 13 sections completed, and no pleas for troubleshooting yet (I shouldn't have said that).

Anyway, I did have an inquiry about something observed in section 13. Everything

on my NC-20 dialed in quite nicely. (CW contest weekend is ideal for
tweaking
on those trimmers). Signals heard quite well, and adjusted to lower
sideband A-OK.

But, when I tested the receive muting, the TICK keyer switched to tune-up
mode, the
receiver muted, and the sidetone played just fine, However, buried under
(or on top of)
the sidetone, I'm hearing a high pitched tone pulsing (beep, beep, beep,
beep) very
faintly at a much higher frequency than the sidetone. Again it is very
faint, and after
20 more years of wear and tear on my ears, I probably won't ever hear it,
but I'm curious as
to where it comes from and do I actually have a problem???

73 to all,
Mark de W07T
wo7t@juno.com

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Feb 1999 13:17:22 -0700
From: wo7t@juno.com
To: qrp-1@Lehigh.edu
Subject: [33731] FS: OHR-400
Message-ID: <19990221.131723.17774.0.wo7t@juno.com>

I am original owner of OHR-400 (80,40,30,20) transceiver with built-in
keyer. Aligned to perfection by Dick at OHR. It's been in a box in the
cabinet
more than its been on my operating desk, so I'm parting with it. It works
fine,
and is mint inside and out.

Rig, Pwr cord, built-in keyer \$240
Rig, Pwr cord, keyer removed \$225

Ground shipping is included in above prices to lower 48 states.

73,

Mark

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Feb 1999 16:00:13 -0500
From: Jim Dolson <jdolson@iserv.net>
To: qrp-1@Lehigh.EDU
Subject: [33732] Trickle Charging - How Much Current ?
Message-ID: <36D073DD.1161@iserv.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is there a rule of thumb for how much current should be used in floating
or trickle charging a gell cell in order to maintain the current charge?

For example, I know that to charge a gell cell, C/10 is commonly used
(i.e. charge a 30 Ah batter at 3 Amps).

But what if I just want to maintain the charge? C/20 ? C/100 ? What
current can be used indefinitely to keep the battery charged but yet not
damage the battery?

Thanks for your thoughts ...

Jim
wb8zbd

Date: Sun, 21 Feb 1999 14:11:58 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: flydnq7x@primenet.com
Cc: qrp-1@lehigh.edu
Subject: [33733] Re: NC20 LowOutput
Message-ID: <19990221.141316.-4119699.3.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Floyd and the group,

Floyd and some others have reported low TX output, especially on a 12v gel cell, so here are some places to look. Be aware that an old gel cell or too small of a battery can have excessive voltage "droop" during transmit load, so measure the battery voltage under load to be sure it is not lower than 11.5-12 volts. This voltage should be sufficient for 5 watts or more of output.

First, let me state that I have tried both of my NC20's on a 12v 7 A/H gel cell, and they both will do 7 watts at 12v, or even lower.

Many things can cause low output. First, if the VFO signal injection into the TX mixer pin 1 is too low or too high - the U7 TX mixer desired output will suffer. The NE602 is quite finicky about its input levels, and if either one is too low or too high the mixer output will have more spurious and less desired signal. This will show up in the behavior of the trimmer caps at TC8 and TC9. More garbage will be on the buffer amp's output with the trimmers just slightly detuned when the driver stage is set near maximum output. T7 is actually broadly resonant at 14 MHz, and although it does add some filtering to the desired signal, it cannot compensate for really dirty input. Its turns should be widely spaced around the entire core.

Low crystal activity at X7 could reduce the maximum TX output, but this is quite rare. More spurious output would likely be the result, and the TX would be unstable at full drive.

Resist the urge to increase the value of R80, since tests indicate that even a small increase of its value will contribute to instability at power levels much above 5 watts. As a last resort, if nothing you do seems to improve a low TX output condition, you might try increasing R80 *slightly*. But do not increase it above 27 to 33 ohms, or transmitter instability is almost guaranteed as 5 watts is approached. Low output is almost certainly caused by a problem somewhere *other* than the PA stage, although anything is possible I suppose. ;-)

Also, if the TX low-pass filter (LPF) following the PA stage is not quite right, the PA will not see the proper load impedance to work into.

Here's how to check it out:

You can use a MFJ-259(B) or similar antenna analyzer, and measure what behavior the LPF actually has. Use a 15-19 ohm collector test resistor directly across the PA's collector to ground. This point is easily found at the metal tab of the PA device. Use a lower value test resistor of ~15

ohms if primary operation at 12v is desired. Use ~19 ohms if operation at 13.8 - 14.0 volts is desired. A parallel combination of a 33 and 39 ohm 1/4 watt resistor will be close to 19 ohms. I merely wedged the resistors between the PA collector tab and a screw hole on the side of the cabinet to do this test. The actual value of the resistor is taken from the approx. collector load resistance formula:

$R_{\text{collector}} = V_{\text{cc}}^2 / 2 \times P_{\text{out}}$ (see reference below) *

Examples:

$R_{\text{collector}} = 14.4$ ohms at 12 volts and 5 watts output
 $R_{\text{collector}} = 19.044$ ohms at 13.8 volts and 5 watts output
 $R_{\text{collector}} = 19.60$ ohms at 14.0 volts and 5 watts output
 $R_{\text{collector}} = 14.0$ ohms at 14.0 volts and 7 watts output (given for reference only)

These are typical approximations of what load resistance the PA has to see at various supply voltages and 5 to 7 watts output.

To proceed:

Leave the power off, connect the analyzer to the antenna jack, and set the frequency control to 14.060 MHz or so. Read the SWR and resistance (impedance also if you have the MFJ-259B or equivalent instrument). Small adjustments in L6 and L7 will allow the match to approach if not equal 1:1 SWR and 50 ohms resistive. On both of my rigs, I got an exact match with no reactive component. The turns on L7 are near the upper half of the core, and on L7 the windings are evenly spaced around the entire core.

If you cannot get the match exact, but if it is close, the LPF characteristics are probably OK. Large departures from a 1:1 SWR or 50 ohm reading are reasons to investigate.

This pre-tuning of the LPF has been described by me before, and Dave Fifield also employed this info during his design of the LPF. Credit Wes Hayward and Doug DeMaw in the ARRL publication SSD for the idea herein employed.

CAUTION!!!!!!!!!!

BE SURE TO REMOVE THE TEST RESISTOR AND ANTENNA ANALYZER BEFORE RE-CONNECTING THE POWER LEAD OR TRANSMITTING!!!!!!!!!!!!!!

Tests I did during the prototype stage indicated that the driver transistors, Q16 and Q17 are not at all critical to achieving full output. In fact, I was able to get more than 5 watts of output with only

a single PN2222A driver transistor. Low output is more likely due to low VFO output, or poor TX mixer / buffer amp performance, *or* finally, a problem with the PA stage or LPF.

You might also try some different values of caps for C14, but be aware that any value below about 8pf or above 22pf caused spurious response of the entire TX stage. The most satisfactory value of C14 is in the 8pf to 15pf range. Small value caps of this size are available in an assortment that Radio Shack sells. Capacitor C66 is used as a voltage divider at the input of U7, so it is also wise to check it to see if it is of the wrong value or out-of-spec.

Other possible reasons for low TX output would be due to Q20 not switching completely on, and I know Floyd had to change this transistor during an AFA problem. Measure the emitter-to-collector voltage drop across Q20 during key-down, and if it is much more than 50-80 millivolts, you may want to change it out. This transistor is responsible for the keying characteristics of the rig, too, so a "soft" device here can cause mushy sounding keying. A prime 2N3906 or even better, a 2N4403 transistor will produce maximum output and good keying.

Other reasons for poor TX output would be mis-adjustment of TC8 and TC9, or a incorrect or bad component somewhere in the TX mixer / buffer amp and driver circuits. All of the NC20 prototypes the NC20 development team built would do over 5 watts, typically 7 watts max.

I hope this helps anyone else that has low TX output.

* Reference: Solid State Design for the Radio Amateur, by Wes Hayward and Doug DeMaw. Third printing. Copyright 1986. Page 25.

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Date: Sun, 21 Feb 1999 16:31:05 -0500
From: "Tim Cook" <timcook@erinet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33734] KL7RA on 21.065
Message-ID: <072601be5de1\$7d5b1ae0\$48755acf@timcook.erinet.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For those wanting AK for WAS, KL7RA is in the ARRL DX CONTEST on 21.065 now
(2131Z) Loud signal into Ohio...
NZ8J

Date: Sun, 21 Feb 1999 14:55:21 -0700
From: Brian Chesire <BCChesire@worldnet.att.net>
To: jskalski@buffnet.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33735] Re: painting engraved panels ?
Message-ID: <36D080C9.134@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim,

A product I've used for years is called "Lacquer-Stick". Its an engraving filler used for panels, rule scales etc. Comes in Black, White, Red and some colors I can't identify. Made by Lake Chemical Co., Chicago. Two sources are machine supply shops and my local ACE Hardware had the white.

When I repaint a panel, I strip-it with a chemical stripper, buff it up with scotch metal fine finishing pads, look like scotch brite pads but has a very fine abrasive in it. Then repaint. After the paint is fully and I mean fully cured, give it a week, then I use the Lacquer stick to rub in the engraving. If the panel isn't going to be touchy feelied, then it can be used right away, other wise give the fill in a couple days to set up.

You can also use the filler to repaint existing enagraving that the colors been worn out of.

73's Brian
WA5PP0 Tucson, AZ

Date: Sun, 21 Feb 1999 11:15:13 -0500
From: "Ronald Hands" <rhands@hwcen.org>
To: <qrp-l@lehigh.edu>
Subject: [33736] Re: copper rod vs copper PIPE for ground
Message-ID: <199902212220.RAA15487@james.hwcen.org>

MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chuck Carpenter <w5usj@unicomp.net> wrote:

>

> Around here, the power companies allow both copper clad rods and
galvanized
> rods and they specify driven and not suckered.

When I put in an 8-ft copper clad ground rod many years ago, a friend lent me his home-made rod driver which consisted of a 2.5 or 3 foot length of very heavy pipe, probably 2 or 3 inches in diameter, with a cap welded over one end and handles welded on both sides.

It just slipped over the end of the ground rod and was alternately lifted and dropped, like a pile driver, pounding the ground rod into the ground (which is heavy clay around here). I found it much easier than trying to hit the end of the rod with a sledgehammer, while perched on a stepladder.

Of course, the last few feet had to be done with a sledge, but at least by then you're working at ground level.

I imagine this is a standard tool for electricians. If it isn't, it should be <g>.

-- Ron VE3SP
Hamilton, ON

Date: Sat, 20 Feb 1999 23:26:10 +0100
From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: wb8ygg@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33737] Re: Fw: Mercury Paddle for sale
Message-ID: <36CF3682.67D3@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Brad,
I did, hi. From 68 to 99 is at least 30 years, and my Mercury has a perfect finish and shape!

wb8ygg@juno.com wrote:

>
> Let's see how many of you noticed my math error!
>
> "One of the TICK Guys"
> Brad WB8YGG
> <http://www.frontiernet.net/~embres>
> embres@frontiernet.net
>
>
> -----
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Date: Sat, 20 Feb 1999 23:25:58 +0100
From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: n4xy@mindspring.com
Cc: qrp-1@Lehigh.EDU
Subject: [33738] Re: Mercury Paddle for sale
Message-ID: <36CF3676.5A4F@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Ed,
I always read your letters, so, please dont stop to send them, just
because some hams cant behave. I understand your policy and accept it.
73 de Lars Olsson, SM3AVQ
Mercury paddle #287 (not for sale).

Ed Tanton wrote:

Thanks very much Jerry... you would not believe the names and worse I
have had thrown at me in the past 24 hours. I have been called a liar,
greedy, and accused of insulting everyone's intelligence, all because,
ON PRINCIPLE, I preferred to list here instead of ebay. It will be a
cold day in Hell before I post anything here or several other places
again, period.

72 / 73 Ed N4XY email: <n4xy@mindspring.com>

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Jerry Henshaw

> Sent: Saturday, February 20, 1999 7:13 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Mercury Paddle for sale
>
> Hi Gang,
>
> I was fortunate enough to purchase the LAST Mercury Paddle sold by
> N2DAN. I was told by his widow that he packed my paddle for shipment
> while he was still in the hospital. For those of you who don't
> know anything
> about the Mercury Paddle -- they were designed and built by N2DAN who
> is a silent key. The fact that no more original Mercuries will
> ever be built
> contributes to their value. It was my understanding that Bencher had bought
> the rights to the Mercury and are supposed to be offering them soon.
>
> I bring my Mercury, WBL, Bencher, and NORCAL paddles to hamfests for
> show 'n' tell. At last year's FIDM several QRPers came by and played with
> all four paddles. This was the first time many of them had ever actually
> seen a Mercury paddle. The overwhelming consensus was this was the
> best paddle they had ever used. I am of the same opinion. The WBL
> comes in a close second.
>
> I understand the sentiments of several of you concerning the high price of
> the Mercury Paddle. Mine is not for sale at any price right now ... ask me
> again in a few years I might change my mind if cash starts running low. So
> don't be too critical of those of us who revere the Mercury and are
> willing to
> pay the price. Obviously, they are not for everyone. But until you have
> actually used one, don't rush to judgement.
>
> I have been using my Mercury with my new K2 --- seems like a fitting
> combination to me. The best QRP rig with the best paddles --- IMHO.
>
> Ed good luck in selling your paddle I know it would be like parting with an
> old friend. BTW my Mercury had someone else's call on it -- I agreed to
> accept the paddle (otherwise I wouldn't have one today). I had an engraver
> put my call on a piece of chromium and I simply placed it over the other
> call.
>
> All the Best & 72's
>
> Jerry Henshaw
> KR5L/4

Date: Sat, 20 Feb 1999 23:26:18 +0100

From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: qrp-1@Lehigh.EDU
Subject: [33739] Re: Mercury Paddle for sale
Message-ID: <36CF368A.41B9@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Jerry and other paddle-lovers,
Interesting to read about your Mercury, but i was missing one information. I am very interested to know how many Mercury paddles N2DAN made. Mine is probably one of the last ones having number 287. It is a rather funny story how I come to buy one. I heard of the Mercury from a ham friend in USA and he also told N2DAN that I was interested to buy one. N2DAN sent me som beautiful pictures and a complete documentation of the Mercury. But, the price was too high. So, I did not buy one. Few weeks after, my friend SM5COP told me that the FOC News Letter had an article about N2DAN and his Mercury paddles. On the fron page they had pictures of some paddles and each had small labels. On one of the labels I could read my own callsign! That day I ordered one Mercury paddle and I said in my letter to N2DAN that I had two reasons for buying.

- 1.) Because my friend EA8CN has one and
- 2.) It seems you already have made on for me and I dont like to disappoint you.

When I got the Mercury paddle N2DAN told me that he always start to make a paddle when he heard that someone was interested. That method was saving him from stress. Of course he did not engraved it before he got the order.

I don not regret I bought the paddle and it is not for sale, at least not for 5000 US dollars.

I agree Jerry what you said in your message: "until you have actually used one, don't rush to judgement."

Greeting to all happy owner of Mercury paddles from
Lars Olsson, SM3AVQ
Mercury paddle #287.

Date: Sun, 21 Feb 1999 17:41:06 EST
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [33740] FS/Trade IC-735 for DX-70T/IC-729/TS-680S
Message-ID: <19990221.223910.5103.0.wb2vuo@juno.com>

After much soul searching, I have decided that getting back on 6 Meters is a necessity, so I am putting my Icom IC-735, with the hand mike and 500 hz CW filter up on the block. Asking \$550 shipped Lower 48 or will

trade for an Alinco DX-70T or DX-70TH, or the Icom IC-729 with the CW filter or a Kenwood TS-680S with CW filter.

Drop me a line here or give me a ring at 716.494.1239

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp.
Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPp beacon
"My night light runs more power than my Rig!!!"

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Date: Sun, 21 Feb 1999 18:33:55 -0500
From: Bill Cotter <bcotter@pop.uky.edu>
To: qrp-l@Lehigh.EDU
Cc: gsurrency@juno.com
Subject: [33741] Re: NorCal 20 - LSB vs USB
Message-ID: <3.0.5.32.19990221183355.00990ba0@pop.uky.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gary,

Do I understand it correctly that there is only one optimum BFO frequency (~700Hz)? I would like to set my bfo to ~500Hz for comfortable copy. Is the peak you describe a result of audio bandpass at one frequency or is it related to the xtal passband?

Thanks,

73 Bill N4ALG

>Slowly tune BFO trimmer TC6, while observing the AC voltmeter for the
>best peak. Use the main tuning control or RIT tuning to keep the test
>signal in the IF passband. Repeat this procedure several times
until you
>are certain the BFO is st to the best frequency that allows the most
>signal to pass through the IF filter. An audio frequency counter
on my
>prototype and final NC20 kit shows about 700-710 HZ as the beat
note from
>the product detect that produces the greatest response through the IF

>filter.

```
-----  
| Bill Cotter, N4ALG           E-mail: bcotter@pop.uky.edu |  
| 173 Carolyn Lane           Home: (606) 887-5563,2402 |  
| Nicholasville, KY 40356-9340 Work: (606) 323-6474 |  
|-----|
```

Date: Wed, 17 Feb 1999 10:34:23 -0500
From: wb4npt@juno.com
To: qrp-l@lehigh.edu
Subject: [33742] wb4npt@Juno.Com: YAESU FT301SD FOR SALE
Message-ID: <19990222.075143.3534.0.WB4NPT@juno.com>

----- Begin forwarded message -----
From: wb4npt@Juno.Com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: YAESU FT301SD FOR SALE
Date: Tue, 16 Feb 1999 10:02:54 -0500
Message-ID: <19990216.101317.3750.14.WB4NPT@juno.com>

YAESU FT301SD FOR SALE-DIGITAL READOUT-160M TO 10M-5 WATT XCVR-GREAT
CONDITION-NO POWER SUPPLY-I DO HAVE MANUAL AND YAESU MIC. \$450.00
PLUS SHIPPING 770-929-8396 8:00AM TO 6:00PM ...JIM GRAGG WB4NPT

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End of QRP-L Digest 1374

